Journal of Neuroscience Methods, 36 (1991) 267–268
Elsevier Science Publishers B.V.

Author Index (Vol. 36)

Aghajanian, G.K., see Bradberry, C.W., (36) 85
Almirall, H., Broquetas, A. and Jofre, L.
Active microwave computed brain tomography: the response to a challenge, (36) 239
Arce, A., see Perillo, M.A., (36) 203

Berthoud, H.-R., see Powley, T.L., (36) 9
Borroni, A., Chen, F.-M., LeCursi, N., Grover, L.M. and Teyler, T.J.
An integrated multielectrode electrophysiology system, (36) 177
Bradberry, C.W., Sprouse, J.S., Sheldon, P.W., Aghajanian, G.K. and Roth, R.H.
In vitro microdialysis: a novel technique for stimulated neurotransmitter release measurements, (36) 85
Broquetas, A., see Almirall, H., (36) 239
Buzy, J.M., see Clements, J.D., (36) 1

Campbell-Hope, L.J., see Montoya, C.P., (36) 219
Chan, M.W.J., see Waller, S.J., (36) 167
Chang, W.S., Hollberg Friedman, C. and Neff, N.T.
An ELISA assay for GAP-43, (36) 71
Chen, F.-M., see Borroni, A., (36) 177
Clements, J.D. and Buzy, J.M.
Automated image analysis for counting unstained cultured neurones, (36) 1

D'Argy, R., see Persson, A., (36) 53
Deakin, J.F.W., see Royston, M.C., (36) 145
Dunnett, S.B., see Montoya, C.P., (36) 219

Evans, R.H., see Waller, S.J., (36) 167

Fernald, R.D., see Mack, A.F., (36) 195
Fuzessery, Z.M., Gumtow, R.G. and Lane, R.
A microcomputer-controlled system for use in auditory physiology, (36) 45

Geller, A.I.
A system, using neural cell lines, to characterize HSV-1 vectors containing genes which affect neuronal physiology, or neuronal promoters, (36) 91
Gillberg, P.-G., see Persson, A., (36) 53
Grinvald, A., see Ratzlaff, E.H., (36) 127
Grover, L.M., see Borroni, A., (36) 177
Gumtow, R.G., see Fuzessery, Z.M., (36) 45

Haesslein, J.-L., see Jouanen, A., (36) 27
Halldin, C., see Persson, A., (36) 53
Hauser, K.F., see Stiene-Martin, A., (36) 119
Hayashi, F., Jiang, C. and Lipski, J.
Intracellular recording from respiratory neurones in the perfused 'in situ' rat brain, (36) 63
Heredia, M., Santacana, M. and Valverde, F.
A method using DiI to study the connectivity of cortical transplants, (36) 17
Hollberg Friedman, C., see Chang, W.S., (36) 71
Hunt, P.F., see Jouanen, A., (36) 27

Izzo, P.N.
A note on the use of biocytin in anterograde tracing studies in the central nervous system: application at both light and electron microscopic level, (36) 155

Jiang, C., see Hayashi, F., (36) 63
Jiang, C., see Pilowsky, P.M., (36) 185
Jofre, L., see Almirall, H., (36) 239
Joseph, M.H. and Young, A.M.J.
Pharmacological evidence, using in vivo dialysis, that substances additional to ascorbic acid, uric acid and homovanillic acid contribute to the voltammetric signals obtained in unrestrained rats from chronically implanted carbon paste electrodes, (36) 209
Jouanen, A., Tremblet, A.-M., Massardier, D., Haesslein, J.-L. and Hunt, P.F.
GABA release from mouse striatal neurons in primary culture as a test for the functional activity of *N*-methyl-D-aspartate (NMDA) antagonists, (36) 27

Kilpatrick, I.C., see Waller, S.J., (36) 167

Lane, R., see Fuzessery, Z.M., (36) 45
Lasser-Ross, N., Miyakawa, H., Lev-Ram, V., Young, S.R. and Ross, W.N.
High time resolution fluorescence imaging with a CCD camera, (36) 253
LeCursi, N., see Borroni, A., (36) 177
Lev-Ram, V., see Lasser-Ross, N., (36) 253
Lipski, J., see Hayashi, F., (36) 63
Lipski, J., see Pilowsky, P.M., (36) 185
Litton, J.-E., see Persson, A., (36) 53

Mack, A.F. and Fernald, R.D.
Thin slices of teleost retina continue to grow in culture, (36) 195
Mascagni, M.
A parallelizing algorithm for computing solutions to arbitrarily branched cable neuron models, (36) 105

Massardier, D., see Jouanen, A., (36) 27
Miyakawa, H., see Lasser-Ross, N., (36) 253
Montoya, C.P., Campbell-Hope, L.J., Pemberton, K.D. and Dunnett, S.B.
The "staircase test": a measure of independent forelimb reaching and grasping abilities in rats, (36) 219
Mountcastle, V.B., Reitboeck, H.J., Poggio, G.F. and Steinmetz, M.A.
Adaptation of the Reitboeck method of multiple microelectrode recording to the neocortex of the waking monkey, (36) 77

Neff, N.T., see Chang, W.S., (36) 71

Osborne, J.G., see Stiene-Martin, A., (36) 119

Pemberton, K.D., see Montoya, C.P., (36) 219
Perillo, M.A. and Arce, A.
Determination of the membrane-buffer partition coefficient of flunitrazepam, a lipophilic drug, (36) 203
Persson, A., D'Argy, R., Gillberg, P.-G., Halldin, C., Litton, J.-E., Swahn, C.-G. and Sedvall, G.
Autoradiography with saturation experiments of ^{11}C-Ro 15-1788 binding to human brain sections, (36) 53
Pilowsky, P.M., Lipski, J., Prestidge, R. and Jiang, C.
Dual fluorescence combined with a two-color immunoperoxidase technique: a new way of visualizing diverse neuronal elements, (36) 185
Poggio, G.F., see Mountcastle, V.B., (36) 77
Powley, T.L. and Berthoud, H.-R.
A fluorescent labeling strategy for staining the enteric nervous system, (36) 9
Prestidge, R., see Pilowsky, P.M., (36) 185

Ratto, G.M. and Usai, C.
Computer aided tracing and encoding of axonal arborizations, (36) 33
Ratzlaff, E.H. and Grinvald, A.
A tandem-lens epifluorescence macroscope: hundred-fold brightness advantage for wide-field imaging, (36) 127
Reitboeck, H.J., see Mountcastle, V.B., (36) 77
Ross, W.N., see Lasser-Ross, N., (36) 253
Roth, R.H., see Bradberry, C.W., (36) 85
Royston, M.C., Slater, P., Simpson, M.D.C. and Deakin, J.F.W.
Analysis of laminar distribution of kappa opiate receptor in human cortex: comparison between schizophrenia and normal, (36) 145

Santacana, M., see Heredia, M., (36) 17
Sedvall, G., see Persson, A., (36) 53
Sheldon, P.W., see Bradberry, C.W., (36) 85
Simpson, M.D.C., see Royston, M.C., (36) 145
Slater, P., see Royston, M.C., (36) 145
Sprick, U.
Long-term tracing of vital neurons with Hoechst 33342 in transplantation studies, (36) 229
Sprouse, J.S., see Bradberry, C.W., (36) 85
Steinmetz, M.A., see Mountcastle, V.B., (36) 77
Stiene-Martin, A., Osborne, J.G. and Hauser, K.F.
Co-localization of proenkephalin mRNA using cRNA probes and a cell-type-specific immunocytochemical marker for intact astrocytes in vitro, (36) 119
Swahn, C.-G., see Persson, A., (36) 53

Teyler, T.J., see Borroni, A., (36) 177
Tolivia, D. and Tolivia, J.
A new rapid silver impregnation for neuronal bodies on methacrylate sections, (36) 139
Tolivia, J., see Tolivia, D., (36) 139
Tremblet, A.-M., see Jouanen, A., (36) 27

Usai, C., see Ratto, G.M., (36) 33

Valverde, F., see Heredia, M., (36) 17

Waller, S.J., Kilpatrick, I.C., Chan, M.W.J. and Evans, R.H.
The influence of assay conditions on measurement of excitatory dibasic sulphinic and sulphonic alpha-amino acids in nervous tissue, (36) 167

Young, A.M.J., see Joseph, M.H., (36) 209
Young, S.R., see Lasser-Ross, N., (36) 253

Journal of Neuroscience Methods, 36 (1991) 269–270
Elsevier Science Publishers B.V.

Subject Index (Vol. 36)

Active microwave cylindrical tomography, (36) 239
Active thermography, (36) 239
Allopurinol, (36) 209
Antagonists, (36) 27
Anterograde tracing, (36) 155
Ascorbic acid, (36) 209
Auditory physiology, (36) 45
Autonomic nervous system, (36) 9
Axonal arborization, (36) 33

Benzodiazepine, (36) 53
Biocytin, (36) 155
Bisbenzimide (Hoechst 33342), (36) 229
Brain dynamic imaging, (36) 239
Brain perfusion, (36) 63
Brain slice, (36) 85
Branching, (36) 105

Cable model, (36) 105
Calcium, (36) 253
Carbocyanine DiI, (36) 17
Carbon paste electrode, (36) 209
^{11}C autoradiography, (36) 53
CCD camera, (36) 253
Cell culture, (36) 1; (36) 27
Compartmental model, (36) 105
Computer, (36) 33
Computer aided microscopy, (36) 33
Connectivity, (36) 17
Cortex, (36) 85
Cortical transplants, (36) 17
Current source density analysis, (36) 177
Cysteine, (36) 167
Cysteine sulphinate, (36) 167

Data acquisition, (36) 45
Dielectric changes reconstruction, (36) 239
Differentiation, (36) 195
Digital-to-analog converters, (36) 45
DiI, (36) 9
Dorsal raphe, (36) 85
Drug partition coefficient, (36) 203
Dual labelling, (36) 185

Electrophysiology software, (36) 177
ELISA, (36) 71
Excitatory amino acid, (36) 167

Flunitrazepam, (36) 203
Fluorescence, (36) 253
Fluorescence microscopy, (36) 127
Fluoro-gold, (36) 9
Fourier analysis, (36) 145
Fura-2, (36) 253

GABA release, (36) 27
GAP-43, (36) 71
Gene therapy, (36) 91
GFAP, (36) 119
Glia, (36) 119
Glutathione, (36) 167
Glycoprotein-120, (36) 1

Histology, (36) 127
Homocysteate, (36) 167
Homocysteine, (36) 167
Homovanillic acid, (36) 209
HPLC, (36) 167
HSV-1 vectors, (36) 91
Human brain, (36) 53
Human immunodeficiency virus, (36) 1
5-Hydroxyindoleacetic acid, (36) 209
Hypoglossal motoneurones, (36) 63

Image analysis, (36) 1
Immunocytochemistry, (36) 119
Immunofluorescence, (36) 185
Immunoperoxidase, (36) 185
In situ hybridization, (36) 119
Intracellular recording, (36) 63; (36) 185
In vivo dialysis, (36) 209
In vivo voltammetry, (36) 209

Kappa receptor, (36) 145
Kynurenate derivatives, (36) 27

Laminar distribution, (36) 145
Long-term grafting, (36) 229
Lucifer yellow, (36) 185

Met-Enkephalin, (36) 119
Methacrylate sections, (36) 139
N-Methyl-D-aspartate (NMDA) receptor, (36) 27
3,4-Methylenedioxymethamphetamine, (36) 85

Microcomputer, (36) 45
Microdialysis, (36) 85
Microscope, (36) 33; (36) 127
Motor skill, (36) 219
Multi-channel amplifier, (36) 177
Multi-lead electrode, (36) 177
Multiple microelectrodes, (36) 77
Myenteric plexus, (36) 9

Neocortex, (36) 77
Nerve centers, (36) 139
Neural cell lines, (36) 91
Neural processing system, (36) 77
Neuroanatomy, (36) 33
Neuroethology, (36) 45
Neuron, (36) 71; (36) 105
Neuronal death, (36) 1
Neuronal morphology, (36) 33
Neuronal physiology, (36) 91
Neuronal somas, (36) 139
Neuronal tissue, (36) 229
Numerical algorithm, (36) 105

Olfactory bulb, (36) 219
Opioids, (36) 119
Optical imaging, (36) 127

Parahippocampal gyrus, (36) 145
Pargyline, (36) 209
Paw use, (36) 219
Photomicroscopy, (36) 127
Phrenic motoneurones, (36) 63
Positron emission tomography, (36) 53
Prevertebral ganglia, (36) 9
Proliferation, (36) 195

Rapid impregnation, (36) 139
Rat, (36) 185
Rat brain, (36) 71
Reaching tests, (36) 219
Receptor, (36) 53
Receptor autoradiography, (36) 145
Regeneration, (36) 195
Regulation of gene expression, (36) 91
Release, (36) 85
Respiration, (36) 63
Retina, (36) 33; (36) 195
Ro 15-1788, (36) 53
Rod progenitor, (36) 195

Schizophrenia, (36) 145
Sensorimotor cortex, (36) 219
Serotonin, (36) 85
Signal generation, (36) 45
Silver impregnation, (36) 139
Single neuron analysis, (36) 77
Single unit recording, (36) 85
Slice culture, (36) 195
Spinal cord, (36) 167
Submucosal plexus, (36) 9
Synaptosomal membranes, (36) 203

Teleost, (36) 195
Tryptophan, (36) 85

Ultrasonics, (36) 45
Uric acid, (36) 209

Vagus nerve, (36) 9
Vital tracer, (36) 229
Voltage-sensitive dyes, (36) 127

Waking monkeys, (36) 77

Contents of Volume 36

Number 1 – January 1991

Research Papers

Automated image analysis for counting unstained cultured neurones
J.D. Clements and J.M. Buzy (U.S.A.) 1

A fluorescent labeling strategy for staining the enteric nervous system
T.L. Powley and H.-R. Berthoud (U.S.A.) 9

A method using DiI to study the connectivity of cortical transplants
M. Heredia, M. Santacana and F. Valverde (Spain) 17

GABA release from mouse striatal neurons in primary culture as a test for the functional activity of *N*-methyl-D-aspartate (NMDA) antagonists
A. Jouanen, A.-M. Tremblet, D. Massardier, J.-L. Haesslein and P.F. Hunt (France) 27

Computer aided tracing and encoding of axonal arborizations
G.M. Ratto and C. Usai (Italy) 33

A microcomputer-controlled system for use in auditory physiology
Z.M. Fuzessery, R.G. Gumtow and R. Lane (U.S.A.) 45

Autoradiography with saturation experiments of ^{11}C-Ro 15-1788 binding to human brain sections
A. Persson, R. D'Argy, P.-G. Gillberg, C. Halldin, J.-E. Litton, C.-G. Swahn and G. Sedvall (Sweden) 53

Intracellular recording from respiratory neurones in the perfused 'in situ' rat brain
F. Hayashi, C. Jiang and J. Lipski (New Zealand) 63

An ELISA assay for GAP-43
W.S. Chang, C. Hollberg Friedman, M.A. Iqbal and N.T. Neff (U.S.A.) 71

Adaptation of the Reitboeck method of multiple microelectrode recording to the neocortex of the waking monkey
V.B. Mountcastle, H.J. Reitboeck, G.F. Poggio and M.A. Steinmetz (U.S.A.) 77

In vitro microdialysis: a novel technique for stimulated neurotransmitter release measurements
C.W. Bradberry, J.S. Sprouse, P.W. Sheldon, G.K. Aghajanian and R.H. Roth (U.S.A.) 85

A system, using neural cell lines, to characterize HSV-1 vectors containing genes which affect neuronal physiology, or neuronal promoters
A.I. Geller (U.S.A.) 91

A parallelizing algorithm for computing solutions to arbitrarily branched cable neuron models
M. Mascagni (U.S.A.) 105

Book reviews 115

Announcements 117

Number 2, 3 – February 1991

Research papers

Co-localization of proenkephalin mRNA using cRNA probes and a cell-type-specific immunocytochemical marker for intact astrocytes in vitro
A. Stiene-Martin, J.G. Osborne and K.F. Hauser (U.S.A.) 119

A tandem-lens epifluorescence macroscope: hundred-fold brightness advantage for wide-field imaging
E.H. Ratzlaff and A. Grinvald (U.S.A.) 127

A new rapid silver impregnation for neuronal bodies on methacrylate sections
D. Tolivia and J. Tolivia (Spain) 139

Analysis of laminar distribution of kappa opiate receptor in human cortex: comparison between schizophrenia and normal
M.C. Royston, P. Slater, M.D.C. Simpson and J.F.W. Deakin (U.K.) 145

A note on the use of biocytin in anterograde tracing studies in the central nervous system: application at both light and electron microscopic level
P.N. Izzo (U.K.) 155

The influence of assay conditions on measurement of excitatory dibasic sulphinic and sulphonic alpha-amino acids in nervous tissue
S.J. Waller, I.C. Kilpatrick, M.W.J. Chan and R.H. Evans (U.K.) 167
An integrated multielectrode electrophysiology system
A. Borroni, F.-M. Chen, N. LeCursi, L.M. Grover and T.J. Teyler (U.S.A.) 177
Dual fluorescence combined with a two-color immunoperoxidase technique: a new way of visualizing diverse neuronal elements
P.M. Pilowsky, J. Lipski, R. Prestidge and C. Jiang (New Zealand) 185
Thin slices of teleost retina continue to grow in culture
A.F. Mack and R.D. Fernald (U.S.A.) 195
Determination of the membrane-buffer partition coefficient of flunitrazepam, a lipophilic drug
M.A. Perillo and A. Arce (Argentina) 203
Pharmacological evidence, using in vivo dialysis, that substances additional to ascorbic acid, uric acid and homovanillic acid contribute to the voltammetric signals obtained in unrestrained rats from chronically implanted carbon paste electrodes
M.H. Joseph and A.M.J. Young (U.K.) 209
The "staircase test": a measure of independent forelimb reaching and grasping abilities in rats
C.P. Montoya, L.J. Campbell-Hope, K.D. Pemberton and S.B. Dunnett (U.K.) 219
Long-term tracing of vital neurons with Hoechst 33342 in transplantation studies
U. Sprick (F.R.G.) 229
Active microwave computed brain tomography: the response to a challenge
H. Almirall, A. Broquetas and L. Jofre (Spain) 239
High time resolution fluorescence imaging with a CCD camera
N. Lasser-Ross, H. Miyakawa, V. Lev-Ram, S.R. Young and W.N. Ross (U.S.A.) 253
A simple method for reducing autotomy in rats after peripheral nerve lesions
R.E. Sporel-Özakat, P.M. Edwards, K.T. Hepgul, A. Savas and W.H. Gispen (Turkey, The Netherlands) 263

Author Index (Vol. 36) 267

Subject Index (Vol. 36) 269